Geosun

UAV LIDAR SCANNING SYSTEM
gAirHawk Series

gAirHawk

gAirHawk **GS-300T** UAV Lidar Scanning System

gAirHawk GS-300T is a kind of compact LiDAR point cloud data acquisition system, integrated Livox new generation laser scanner, GNSS and IMU positioning and attitude determination system, camera (optional) and storage control unit, is able to real-time, dynamically, massively collect high-precision point cloud data and rich image information. It is widely used in the acquisition of 3D spatial information in surveying, electricity, forestry, agriculture, land planning, geological disasters, mine safety.

High efficiency, high precision, high point cloud density, double echo function, good vegetation penetration, it can be widely used in topographic surveying and mapping, pile measurement, power line inspection, marine surveying and mapping, forestry investigation, road survey and design and other fields.

Specification of GS-300T:

	Item Name	System Parameters
GS-300T	Weight	Less than 2.15 Kg
	Working temperature	-20℃~ 55℃
	Power Range	12 V
	Consumption	Less than 20 W
	Carrying Platform	VOTL fixed wing drone
	Storage	64 GB storage maximum support 128GB TF card
	Dimension	16*12.5*13.5 cm
Lidar Unit	Measuring Range	320m@10% Reflectivity 500m@50% Reflectivity
	Laser Class	905nm Class1 (IEC 60825-1:2014)
	Laser Line Number	128 beam
	Range Accuracy	0.02 m
	Pulse Frequency	240 KHz
	Beam Divergence	0.02° * 0.12°
	Data	Double echos, 480,000 Points/Sec
	FOV	14.5° * 16.2°
	Laser sensor	Livox Tele-15
POS Unit	Update frequency	200HZ
	Pitch Accuracy	0.005°
	Roll Accuracy	0.005°
	Heading Accuracy	0.017°
	Position Accuracy	0.02 ~ 0.05 m
	GNSS Signal type	GPSL1/L2 GLONASSL1/L2 BDS B1/B2/B3
	POS Type	gSpin 303(AGS)
Camera (option)	Camera Model	Sony RX1 RM2
	Effective Pixel	42 Mega Pixel
	Trigger event	Distance or Time trigger
	Weight	About 600 g